28

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Byatarayanapura Division

MEASUREMENT SHEET

POST MEASUREMENT

Name of Work:	Improvements to Government school building in Kodigehalli in ward no. 8
Estimated Cost:	Rs. 50.00 Lakhs
Job Code / Indent No	008-20-000053
Head of Account:	P-3602 Special Development Works
Name of Agency:	N.N. Srinivasaiah
Amount put to Tender:	Rs. 43,98,325.70
Amount Tender Price:	Rs. 43,71,937.24
Percentage	(-0.60%) below excluding GST
Period of Completion:	90 days

Post-Measurements Recorded on: 30-06-2022

Sl No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
26	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 1									
		sqm					Total	34.68		
							Lim to	34.68	489.53	16976.90
29	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications									
	Quantity vide Pre measurement recorded in E-MB in page No. 1									
		sqm					Total	69.42		
							Lim to	69.42	313.47	21761.08
30	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 2									
		sqm					Total	6.36		
							Lim to	6.36	346.75	2205.33
27	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.									
	Quantity vide Pre measurement recorded in E-MB in page No. 2									
		sqm					Total	102.96		
							Lim to	102.96	429.49	44220.29

Contractor

Junior Engineer
Ward no. 8
30/6/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
28	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 2									
		sqm					Total	6.30		
							Lim to	6.30	810.51	5106.21
34	Providing TMT/ Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No.4									
		Tonnes					Total	4.01		
							Lim to	3.95	77789.41	307268.16
16	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 4									
		cum					Total	63.31		
							Lim to	59.96	482.01	28901.31
17	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 4									
		cum					Total	10.55		
							Lim to	10.55	2607.58	27509.96
18	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 4									
		cum					Total	25.72		
							Lim to	25.72	5575.86	143411.11
20	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 5									
		cum					Total	25.87		
							Lim to	20.95	4933.90	103365.20

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
21	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 5									
		cum					Total	16.83		
							Lim to	16.79	6446.49	108236.56
22	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 5									
		sqm					Total	17.01		
							Lim to	16.91	152.44	2577.76
7	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 6									
		cum					Total	23.88		
							Lim to	20.69	482.09	9974.44
8	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	Quantity vide Pre measurement recorded in E-MB in page No. 6									
		cum					Total	1.22		
							Lim to	1.08	5477.10	5915.26
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.									
	Quantity vide Pre measurement recorded in E-MB in page No. 6									
		sqm					Total	47.88		
							Lim to	47.34	276.97	13111.75
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 m									
	Quantity vide Pre measurement recorded in E-MB in page No. 6									
		sqm					Total	10.89		

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty	Quoted rate	Amount
							Lim to	10.89	429.41	4676.27
12	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500									
	Quantity vide Pre measurement recorded in E-MB in page No. 7									
		tonnes					Total	1.27		
							Lim to	0.83	76183.42	63232.23
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II.By Mechanical Means									
	Toilet slab	Cum	1	2.50	1.20	0.00	0.15	0.45		
							Total	0.45		
							Lim to	0.45	793.33	356.99
2	Dismantling Mangalore tiles roof and stacking the material within a radius of 50 meters. - with reepers									
	old class room roof	Sqm	1	18.60	9.00			167.40		
							Total	167.40		
							Lim to	167.40	79.44	13298.25
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar.									
	SSM									
	SSM columns	Cum	5	0.20	0.45		3.00	1.35		
	long walls	Cum	2	18.60	0.80		0.75	22.32		
	short walls	Cum	3	9.20	0.80		0.75	16.56		
	D1	Cum	2	1.20	2.10		0.15	0.75		
	W1	Cum	10	1.50	1.20		0.13	2.34		
	superstructure	Cum						0.00		
	long walls	Cum	2	18.60	0.30		3.60	40.17		
	short walls	Cum	2	9.00	0.30		3.60	19.44		112.32
	inner walls	Cum						0.00		
	short walls	Cum	1	8.70	0.30		3.60	9.39		
	Deductions-D1	Cum	2	0.90	0.30		2.10	-1.13		
	Deductions-W1	Cum	10	1.50	0.30		1.20	-5.40	(-)	6.53
							Total	105.79		105.79
							Lim to	105.70	376.81	39823.81

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Kodigehalli Sub Division
BBMP, Bangalore

Sl No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
4	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms)									
	old school	Sqm	2	9.30	8.40			156.24		
							Total	156.24		
							Lim to	156.24	92.32	14424.07
5	Dismantling plastering and removing the debris with a lead upto 200m									
	superstructure	Sqm								
	long walls	Sqm	4	18.60			3.60	267.84		
	short walls	Sqm	4	9.00			3.60	129.60		
	inner walls	Sqm								
	short walls	Sqm	2	8.70			3.60	62.64		460.08
	Deductions-D1	Sqm	4	0.90			2.10	-7.56		
	Deductions-W1	Sqm	20	1.50			1.20	-36.00	(-)	43.56
							Total	416.52		416.52
							Lim to	416.52	39.72	16544.17
6	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in charge.									
	Quantity vide item No. 3	Cum	1					105.70		
	Quantity vide item no. 4	Cum	2	9.30	8.40		0.05	7.81		
	Debris	Cum	2	12.00	3.00		0.60	43.20		
								156.71		
	Deduct 15% for voids							-23.50		
							Total	133.21		
							Lim to	133.21	64.53	8596.04
11	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs. with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.									
	For sump									
	Bottom slab	Cum	1	3.30	3.30		0.15	1.63		
	Sump walls	Cum	2	3.30	0.15		1.80	1.78		
		Cum	2	3.30	0.15		1.80	1.78		
	cover slab	Cum	1	3.30	3.30		0.15	1.63		
							Total	6.82		
							Lim to	6.66	6239.30	41553.73
13	Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications.									

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	For sump	No.	4					4.00		
							Total	4.00		
							~~Lim to~~	4.00	296.29	1185.16
14	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in charge.									
	Quantity vide item No. 7	Cum	1					23.88		
	Deduct 15% for voids							-3.58		
							Total	20.30		
							~~Lim to~~	20.30	66.69	1353.80
15	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification									
	sump bottom	Sqm	1	3.30	3.30			10.89		
	sump walls	Sqm	2	3.30			1.80	11.88		
		Sqm	2	3.30			1.80	11.88		
	slab	Sqm	1	3.30	3.30			10.89		
							Total	45.54		
							~~Lim to~~	44.46	564.67	25105.22
19	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	alround building									
		Cum	1	30.00	1.00		0.15	4.50		
		Cum	1	25.00	1.00		0.15	3.75		
		Cum	1	11.00	1.00		0.15	1.65		
		Cum	1	22.50	1.50		0.15	5.06		
		Cum	1	15.20	1.50		0.15	3.42		
							Total	18.38		
							~~Lim to~~	18.38	5719.71	105128.26
23	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cm in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications.									
	Quantity vide item No. 16	Cum	1					59.96		
	Deduct qty vide item No. 17	Cum	1					-10.55		

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	Deduct qty vide item No. 18	Cum	1					-25.72		
	Deduct qty vide item No. 20	Cum	1					-20.95		
							Total	2.74		
							Lim to	2.73	215.78	589.07
24	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in charge.									
	Quantity vide item No. 16	Cum	1					59.96		
	Deduct qty vide item No. 23	Cum	1					-2.73		
							Total	57.23		
							~~Lim to~~	57.23	68.82	3938.56
25	Providing and fixing M.S Grill over existing compound wall as per Chief Architect drawing No. 12686, using 16mm x 16mm M.S Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification.									
	Grill - Ground floor	Sqm	1	37.20			1.80	66.96		
	Grill - first floor	Sqm	1	37.20			1.80	66.96		
	Grill - second floor	Sqm	1	37.20			1.80	66.96		
							Total	200.88		
							~~Lim to~~	200.88	5763.73	157818.08
31	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications									
	second floor									
	columns	Cum	10	0.45	0.23		2.55	2.63		
	through lintel	Cum	2	13.20	0.20		0.20	1.05		
							Total	3.68		
							~~Lim to~~	3.68	6618.25	24355.16
32	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) - Ready mixed Cement concrete for Beams, Staircase and Roof with M-25									
	second floor									
	beam longer direction	Cum	2	13.20	0.23		0.45	2.73		
	beam shorter direction	Cum	5	7.80	0.23		0.45	4.03		
	slab	Cum	1	13.20	7.80		0.15	15.44		

22.20

Executive Engineer, (BTP), BBMP. 30/11/22

Contractor

Junior Engineer
Ward no. 8
30/11/22

Assistant Executive Engineer
Kodigehalli Sub Division
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
							Total	22.20		
							Lim to	22.20	5901.14	131005.30
33	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs. with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications									
	second floor									
	chejja	Sqm	4	2.10	0.60			5.04		
							Total	5.04		
							Lim to	5.04	543.20	2737.72
35	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification.									
	Third floor									
		kg	1	4.6x3.4x3.28x3.28x2.5				420.65		
							Total	420.65		
							Lim to	420.65	138.48	58251.61
36	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.									
	Third floor									
	Roof sheet	Sqm	1	4.90	3.60					
							Total	17.64		
							Lim to	17.64	757.91	13369.53
37	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block denisity not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs scaffolding, curing complete as per specifications.									
	ground floor									
	corridor wall	Sqm	1	37.20			1.20	44.64		

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	Deduct for door d	Sqm	3	1.20			1.20	-4.32		
							Total	40.32		
							Lim to	40.32	979.05	39475.29
38	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. - Second floor									
	longer direction	Sqm	2	13.20			2.40	63.36		
	shorter direction	Sqm	3	5.72			2.40	41.18		104.54
	Deduct for door d	Sqm	2	1.20			2.10	-5.04		15.84
	Deduct for window w	Sqm	6	1.50			1.20	-10.80		
							Total	88.70		
							Lim to	88.70	1054.20	93507.54
39	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.									
	second floor									
	corridor wall	Sqm	1	15.00			1.20	18.00		
	deduction for grill	Sqm	3	3.00			1.20	-10.80		
							Total	7.20		
							~~Lim to~~	7.20	945.77	6809.54
40	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. -Third floor									
	parapet wall	Sqm	2	18.92			1.00	37.84		
	head room long wall	Sqm	2	4.30			1.20	10.32		
	head room short wall	Sqm	2	3.00			1.20	7.20		55.36
	deduction for door D	Sqm	1	1.00			1.00	-1.00		1.00
							Total	54.36		54.36
							~~Lim to~~	54.36	983.34	53454.36
41	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
	External plastering									
	ground floor corridor wall	Sqm	2	37.20			1.20	89.28		
	deduct for door	Sqm	6	1.20			1.20	-8.64		
							Total	80.64		
							~~Lim to~~	80.64	280.19	22594.52

Contractor

Junior Engineer
Ward no. 8
30/11/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
42	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. - Second floor									
	longer direction	Sqm	2	13.20			3.00	79.20		
	shorter direction	Sqm	2	5.80			3.00	34.80		
	corridor wall	Sqm	2	15.00			1.20	36.00		
	chejja	Sqm	4	1.80			0.60	4.32		
		Sqm	4	3.00			0.15	1.80		156.12
	deduction for grill	Sqm	6	3.00			1.20	-21.60		(-) 37.44
	deduction for door	Sqm	2	1.20			2.10	-5.04		118.68
	deduction for window	Sqm	6	1.50			1.20	-10.80		
							Total	118.68		
							~~Lim to~~	118.68	305.95	36310 14
43	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. - Third floor									
	parapet wall	Sqm	4	18.92			1.00	75.68		
	head room long wall	Sqm	4	4.30			1.20	20.64		
	head room short wall	Sqm	4	3.00			1.20	14.40		110.72
	deduction for door	Sqm	2	1.00			1.00	-2.00		(-) 2 108.72
							Total	108.72		
							~~Lim to~~	108.72	318.84	34664 28
44	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
	Internal plastering									
	second floor									
	class room 1	Sqm	2	6.10			2.85	34.77		
		Sqm	2	5.30			2.85	30.21		
	class room 2	Sqm	2	6.10			2.85	34.77		129.96
		Sqm	2	5.30			2.85	30.21		
	deduction for door	Sqm	2	1.00			2.10	-4.20		(-) 15.00
	deduction for window	Sqm	6	1.20			1.50	-10.80		114.96
							Total	114.96		
							~~Lim to~~	114.96	231.88	26656 92
45	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
	second floor ceiling									
	class room 1	Sqm	1	6.10	5.30			32.33		
	class room 2	Sqm	1	6.10	5.30			32.33		
	beam	Sqm	4	7.80			0.45	14.04		
	corridor	Sqm	1	13.20	1.90			25.08		
								103.78		

Contractor

Junior Engineer
Ward no. 8
30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
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Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
							Total	103.78		
							Lim to	103.78	254.42	26403.70
46	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification									
	qty vide item no 44	Sqm	1					114.96		
	qty vide item no 45	Sqm	1					103.78		
							Total	218.74		
							Lim to	218.74	83.73	18315.10
47	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer.									
	Quantity vide item no. 44	Sqm	1					114.96		
							Total	114.96		
							Lim to	114.96	96.62	11107.43
48	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.Extra for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.									
	Qty vide item no. 45	Sqm	1					103.78		
							Total	103.78		
							Lim to	103.78	126.68	13146.85
49	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.									
	Ground floor									
	old building painting	Sqm	2	38.70			4.20	325.08		
		Sqm	2	30.00			4.20	252.00		
		Sqm	2	7.60			4.20	63.84		
	columns painting	Sqm	18	1.00			4.20	75.60		
							Total	716.52		
							Lim to	716.52	365.00	261529.80
50	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications. - Second floor									
	Qty vide item no. 42	Sqm	1					118.68		

Contractor

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30/4/22

Assistant Executive Engineer
Kodigehalli Sub Division
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	Qty vide item no. 43	Sqm	1					108.72		
							Total	227.40		
							~~Lim to~~	227.40	382.17	86905.45
51	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc .complete.									
	Ground floor									
	stepsin front of building									
	treads	Sqm	3	34.50	0.30			31.05		
	rise	Sqm	3	34.50			0.15	15.52		
	front of stage	Sqm	1	7.80			0.85	6.63		
							Total	53.20		
							~~Lim to~~	53.20	4783.61	254488.05
52	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner toping, under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications .									
	second floor									
	class room 1	Sqm	1	6.10	5.30			32.33		
	class room 2	Sqm	1	6.10	5.30			32.33		
	corriodor	Sqm	1	13.20	1.90			25.08		
							Total	89.74		
							~~Lim to~~	89.74	681.69	61174.86
53	Providing and fixing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification.									
	second floor									
	class room 1	Sqm	1	6.10	5.30			32.33		
	class room 1	Sqm	1	6.10	5.30			32.33		
	corridor	Sqm	1	13.20	1.90			25.08		
	skirting	Sqm	4	6.20			0.15	3.72		
		Sqm	4	5.30			0.15	3.18		
		Sqm	1	26.30			0.15	3.94		
							Total	100.58		
							~~Lim to~~	100.58	1224.89	123199.43

Contractor

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30/4/22

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Sl. No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
54	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.									
	slab	Sqm	1	13.20	7.80			102.96		
	water proofing coat on existing b	Sqm	1	7.60	7.80			59.28		
							Total	162.24		
							Lim to	162.24	1067.08	173123.05
55	Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.									
	Second floor									
	Door	No.	2					2.00		
							Total	2.00		
							Lim to	2.00	1466.43	2932.86
56	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications.									
	Second floor									
	Door	Sqm	2	6.20	0.15		0.13	0.23		
							Total	0.23		
							Lim to	0.23	94044.65	21630.26
57	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)									
	Second floor									
	Door	Sqm	2	1.00			2.10	4.20		
							Total	4.20		
							Lim to	4.20	5077.75	21326.55

Contractor

Junior Engineer
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30/4/22

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Sl No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
58	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.									
	Second floor									
	Door	Sqm	2	6.20	0.15			1.86		
		Sqm	4	6.20	0.13			3.10	3.22	
							Total	4.96	5.08	
							Lim to	4.96	104.13	516.48
59	Pre-painted steel windows / ventilators & door frames: Supply and fixing of windows and top hung and fixed louered ventilatorsmade of pre-painted steel (base steel as per IS 513 of -0.58mm thick'D' quality, galvanized as per IS 277 with zinc of 120 GSM) with apolyester paint, of 12-16 microns thick and back coated with 5-7 micronsthick alkyd backer. Section for outer frame should be 46x52mm, sectionfor shutter should be 46x46mm, section for mullion should be 46x70mm,and section for beading should be 18x25mm and section for louvered ventilator should be 33x57mm the windows hould be pannaled with 5 mm thick plain float glass and 4mm pinhead glass for ventilators with rubber Gasket. The sections are to be cut to length, mitre joined with corner bracket and centre mullions are to be fixed using mullion cap. Handle made of high grade aluminium powder coated and nylon receiver. Corner brackets made of CRCA with Zinc Phosphate. Mullion caps made of glass filled nylon. The above frames should be ixed to the concrete masonry will by means of self-expanding screws. Including 10mm square bars with 6" pitch complete finished item of work. Double shutter 3'-0" X 4' - 0" (914.4MM x 1219.2 MM) outer frame section size of 46x52mm shutter frame section size of 46x46mm.									
	second floor									
	window	Sqm	6	1.50			1.20	10.80		
							Total	10.80		
							Lim to	10.80	4137.35	44683.38
60	Providing and fixing M.S grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.									
	Second floor									
	Window	Sqm	6	1.50			1.20	10.80	x 21	
							21.00	226.80		
							Total	226.80		
							Lim to	226.80	114.87	26052.51
61	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.									
	Qty vide item no. 59	Sqm	1*2					21.60		
	Qty vide item no. 60	Sqm	1*2					21.60		
		Sqm						43.20		
	Co-efficient at 2.25		2.25	43.20				97.20		
							Total	97.20		
							Lim to	97.20	101.98	9912.45

Contractor

Junior Engineer
Ward no. 8
30/11/22

Assistant Executive Engineer
Kodigehalli Sub Division
Kodigehalli Sub Division
BBMP, Bangalore

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
62	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.									
	second floor									
	between corridor walls	Sqm	3	3.00			1.20	21.60	10.80	
							Total	21.60	10.80	
							~~Lim to~~	10.80	3061.68	33066.14
63	Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre- punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre- treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm									
	Ground floor D1	Rm	3	7.20				21.60		
	Second floor D1	Rm	1	7.20				7.20		
							Total	28.80		
							~~Lim to~~	28.80	585.07	16850.01
64	Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size – 900 x 2035 x 32 mm thick.									
	Ground floor D1	Sqm	3	2.00			2.10	12.60		
	Second floor D1	Sqm	2	2.00			2.10	8.40		
							Total	21.00		
							~~Lim to~~	21.00	2297.33	48243.93
65	Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications.									
		Unit	2					2.00		

Contractor

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Sl. No	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
							Total	2.00		
							Lim to	2.00	793.33	1586.66
66	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia									
		Each	12				0.00	12.00		
							Total	12.00		
							Lim to	12.00	161.03	1932.36
67	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia									
	110 mm dia	Rm	3	30.00				90.00		
							Total	90.00		
							Lim to	90.00	465.91	41931.90
68	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 160mm dia									
	160mm dia	Rm	1	40.00				40.00		
							Total	40.00		
							Lim to	40.00	915.71	36628.40
69	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm									
		No.	3					3.00		
							Total	3.00		
							Lim to	3.00	9114.18	27342.54
70	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity)									
		Each	1					1.00		
							Total	1.00		
							Lim to	1.00	7329.99	7329.99

Contractor

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ard No. 8 Post Measurement

Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
71	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials labour and HOM of equipments with all leads complete as per specifications.									
		Each	12					12.00		
							Total	12.00		
							Lim to	12.00	185.72	2228.64
72	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
		Each	6					6.00		
							Total	6.00		
							Lim to	6.00	151.37	908.22
73	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
		Each	3					3.00		
							Total	3.00		
							Lim to	3.00	360.70	1082.10
74	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes									
	20mm nominal OD pipes	Rm	1	36.00				36.00		
							Total	36.00		
							Lim to	36.00	252.28	9082.08
75	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes									
	25mm nominal OD pipes	Rm	1	25.00				25.00		
							Total	25.00		
							Lim to	25.00	314.54	7863.50
76	Supplying installing testing and commmissioning electrically driven jockey pump of capacity 180 LPM at 70.0 m head with all the necessary accessoris viz pressure guages etc., coperating on 3 PH 50 HZ 400/440 V AC supply including foundation bolts etc., complete control panel shall be as per specification.									
		No	1					1.00		
							Total	1.00		
							Lim to	1.00	89074.25	89074.25

Contractor

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Sl. No.	Description	Unit	No	L (m)	B1 (m)	B2 (m)	D/H (m)	Qty.	Quoted rate	Amount
	Sub Total-1									4362960.87
									(-)	9500.00
	Add GST charges @ 12%								4353460.87	~~523555.30~~ 522415.30
										4886516.17
Total Rs										

4875876.17

₹ total

Round off.. 48,75,000.00

Contractor

Junior Engineer
Ward no. 8
30/04/22

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Byatarayanapura Division

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of Work:	Improvements to Government school building in Kodigehalli in ward no. 8
Estimated Cost:	Rs. 50.00 Lakhs
Job Code / Indent No	008-20-000053
Head of Account:	P-3602 Special Development Works
Name of Agency:	N.N. Srinivasaiah
Amount put to Tender:	Rs. 43,98,325.70
Amount Tender Price:	Rs. 43,71,937.24
Percentage:	(-0.60%) below excluding GST
Period of Completion:	90 days

Sl No	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty.	Remarks
Pre-Measurements Recorded on:		05.07.2021						
26	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications.							
	Second floor							
	Columns	Sqm	10	1.36		2.55	34.68	
		Sqm				Total	34.68	
						Lim to	34.68	
Pre-Measurements Recorded on:		15.07.2021						
29	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications							
	Second floor							
	Lintel	Sqm	4	13.20		0.20	10.56	
Pre-Measurements Recorded on:		23.07.2021						
	Beam - Longer direction	Sqm	4	13.20		0.45	23.76	
	Beam - Shorter direction	Sqm	10	7.80		0.45	35.10	
		Sqm				Total	69.42	
						Lim to	69.42	

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Sl. No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty.	Remarks
Pre-Measurements Recorded on:		23.07.2021						
30	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications.							
	Second floor							
	Chejja base	Sqm	4	2.10	0.60		5.04	
	front portion	Sqm	4	2.10		0.10	0.84	
	side portion	Sqm	8	0.60		0.10	0.48	
		Sqm				Total	6.36	
						Lim to	6.36	
Pre-Measurements Recorded on:		23.07.2021						
27	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs							
	Second floor							
	RCC roof slab beneath	Sqm	1	13.20	7.80		102.96	
		Sqm				Total	102.96	
						Lim to	102.96	
Pre-Measurements Recorded on:		23.07.2021						
28	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.							
	Second floor							
	Roof slab sides	Sqm	2	13.20		0.15	3.96	
			2	7.80		0.15	2.34	
	Total	Sqm				Total	6.30	
						Lim to	6.30	

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Sl No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty	Remarks
Pre-Measurements Recorded on								
34	Providing TMT/ Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.							
Pre-Measurements Recorded on:		05.07.2021						
	Columns							
	16mm dia bar	kg	10	4.00	4.00	1.58	252.80	
	12mm dia bar	kg	10	4.00	4.00	0.62	99.20	
	8mm dia distribution	kg	10	27.00	1.36	0.39	143.20	
						Sub Total-1	495.20	
Pre-Measurements Recorded on:		15.07.2021						
	Lintels							
	12mm dia bar	kg	2	4.00	13.10	0.62	64.97	
	8mm dia distribution	kg	2	88.00	0.80	0.39	54.91	
						Sub Total-2	119.88	
	Chejja							
	10mm dia bar	kg	4	6.00	2.40	0.62	35.71	
	10mm dia bar	kg	4	21.00	0.60	0.62	31.24	
						Sub Total-3	66.95	
Pre-Measurements Recorded on:		23.07.2021						
	Beam							
	Longer dimension							
	16mm dia bar	kg	2	4.00	13.20	1.58	166.84	
	12mm dia bar	kg	2	4.00	13.20	0.62	65.47	
	8mm dia distribution	kg	2	88.00	2.60	0.39	178.46	
	Shorter dimension							
	16mm dia bar	kg	5	4.00	7.80	1.58	246.48	
	12mm dia bar	kg	5	4.00	7.80	0.62	96.72	
	8mm dia distribution	kg	5	52.00	2.60	0.39	263.64	
						Sub Total-4	1017.61	
	RCC slab							
	10 mm dia cranked bar	kg	115	9.75		0.62	695.17	
	10 mm dia un cranked bar	kg	114	7.70		0.62	544.23	
	10mm dia top bar	kg	115	7.70		0.62	549.01	
	8mm dia dist at top and bottom	kg	52	13.10	2.00	0.39	531.33	
						Sub Total-5	2319.74	

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Sl. No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty.	Remarks
		kg				Total	4019.38	
		Tons				in Tonnes	4.01	
						Lim to	3.95	
Pre-Measurements Recorded on:		03.08.2021						
16	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications							
	Front side steps	Cum	3	22.50	0.75	0.60	30.37	
		Cum	3	12.00	0.75	0.60	16.20	
	corridor wall	Cum	1	37.20	0.75	0.60	16.74	
		Cum				Total	63.31	
						Lim to	59.96	
Pre-Measurements Recorded on:		05.08.2021						
17	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.							
	Front side steps	Cum	3	22.50	0.75	0.10	5.06	
		Cum	3	12.00	0.75	0.10	2.70	
	corridor wall	Cum	1	37.20	0.75	0.10	2.79	
		Each				Total	10.55	
						Lim to	10.55	
Pre-Measurements Recorded on:		07.08.2021						
18	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	Front side steps	Cum	3	22.50	0.75	0.15	7.59	
		Cum	3	12.00	0.75	0.15	4.05	
	corridor wall	Cum	1	37.20	0.75	0.15	4.18	
	PCC alround building	Cum	1	30.00	1.00	0.15	4.50	
		Cum	1	25.00	1.00	0.15	3.75	
		Cum	1	11.00	1.00	0.15	1.65	
		Cum				Total	25.72	
						Lim to	25.72	

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Sl. No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty.	Remarks
Pre-Measurements Recorded on:		11.08.2021						
20	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.							
	SSM footing							
		Cum	3	22.50	0.45	0.55	16.87	16.70
		Cum	3	12.00	0.45	0.55	9.00	8.94
	Total	Cum				Total	25.87	25.64
						Lim to	20.95	
							20.95	
Pre-Measurements Recorded on:		14.08.2021						
21	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications.							
	for corridor wall	Cum	1	37.20	0.45	0.45	7.53	
	steps	Cum	1	22.50	0.30	0.45	3.03	
		Cum	1	22.50	0.30	0.30	2.02	
		Cum	1	22.50	0.30	0.15	1.01	
		Cum	1	12.00	0.30	0.45	1.62	
		Cum	1	12.00	0.30	0.30	1.08	
		Cum	1	12.00	0.30	0.15	0.54	
	Total	Cum				Total	16.83	
						Lim to	16.79	
Pre-Measurements Recorded on:		14.08.2021						
22	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.							
	for corridor wall	Sqm	1	37.20		0.45	16.74	
	for side steps	Sqm	2	0.30		0.45	0.27	
	Total	Sqm				Total	17.01	
						Lim to	16.91	

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Pre Measurement

Sl. No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty	Remarks
Pre-Measurements Recorded on:		06.09.2021						
7	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications							
	for sump	Cum	1	3.50	3.50	1.95	23.88	
	Total	Cum				Total	23.88	
						Lim to	20.69	
Pre-Measurements Recorded on:		08.09.2021						
8	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	for sump	Cum	1	3.50	3.50	0.10	1.22	
	Total	Cum				Total	1.22	
						Lim to	1.08	
Pre-Measurements Recorded on:		11.09.2021						
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.							
	for sump	Sqm	4	3.30		1.90	25.08	
		Sqm	4	3.00		1.90	22.80	
	Total	Sqm				Total	47.88	
						Lim to	47.34	
Pre-Measurements Recorded on:		11.09.2021						
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level - 0 to 5 m							
	sump cover slab	Sqm	1	3.30	3.30		10.89	
	Total	Sqm				Total	10.89	
						Lim to	10.89	

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Sl. No.	Description	Unit	No	L (m)	B (m)	D/H (m)	Qty.	Remarks
Pre-Measurements Recorded on:		11.09.2021						
12	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500							
	sump							
	10mm dia bar outside	kg	36	7.10	2.00	0.62	316.94	
	10mm dia bar inside	kg	35	6.80	2.00	0.62	295.12	
	10mm bar outside	kg	36	13.20	1.00	0.62	294.62	
	10mm bar inside	kg	35	12.90	1.00	0.62	279.93	
	covering slab							
	10mm dia bar	kg	22	3.20		0.62	43.64	
	10mm dia bar	kg	22	3.20		0.62	43.64	
		kg				Total	1273.89	
		Tons				Total	1.27	
						Lim to	0.83	

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